

**Chapter 6 Preview**  
Graphing Functions  
Integrated Math 2

Name \_\_\_\_\_

Date \_\_\_\_\_

**Definitions: Define the following terms.**

- |                                |                              |
|--------------------------------|------------------------------|
| 1. Coordinate Plane            | 16. Graph of an Inequality   |
| 2. Quadrants                   | 17. Closed Half-plane        |
| 3. $x$ -axis                   | 18. Test Point               |
| 4. $y$ -axis                   | 19. Function                 |
| 5. Ordered Pairs               | 20. Function Notation        |
| 6. Origin                      | 21. Domain                   |
| 7. Slope                       | 22. Range                    |
| 8. Linear Equation             | 23. Continuous               |
| 9. $y$ -intercept              | 24. Linear Function          |
| 10. Slope-intercept Form       | 25. Vertical Line Test       |
| 11. Point-slope Form           | 26. Quadratic Function       |
| 12. Open Half-plane            | 27. Direct Variation         |
| 13. Boundary                   | 28. Constant of Variation    |
| 14. Linear Inequality          | 29. Direct Square Variation  |
| 15. Solution to the Inequality | 30. Inverse Variation        |
|                                | 31. Inverse Square Variation |

**Objectives: You *should* be able to do the following:**

1. Use the distance formula to find the distance between two points
2. Use the midpoint formula
3. Find the slope of a line
4. Identify horizontal and vertical lines
5. Write equations of lines using slope, intercepts, and points
6. Graph a line given the equation
7. Write linear inequalities in two variables
8. Graph linear inequalities in two variables on the coordinate plane
9. Graph linear functions
10. Identify the domain and range of a function
11. Identify points given the graph of a quadratic function
12. Graph simple quadratic functions
13. Find patterns when given a function
14. Find the function when given a pattern
15. Solve problems involving direct variation and direct square variation
16. Solve problems involving inverse variation and inverse square variation

If you can give a good definition for each term without having to look it up, then you should be ready to identify these terms for the test. If you can describe a method as to how to perform each of the objectives, then you should be ready to perform these tasks on the test. For terms or objectives that you are unsure about, make sure to study them!

**Check the class wiki for wiki summary assignments.**